

# **Verde Valley Master Transportation Plan**

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## **Public Meeting # 2**

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Verde Valley

**Sedona, AZ  
November 16, 2015**

**Camp Verde, AZ  
November 18, 2015**

**Cottonwood, AZ  
November 19, 2015**

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**Disclaimer:** Please note that the recommendations presented in this powerpoint presentation are Draft and are subject to revisions based on feedback received from the Public Meetings.

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A scenic view of a winding road through a valley with mountains in the background. A green road sign on the left reads "ENTERING Verde Valley". Several cars are visible on the road.

# STUDY OVERVIEW

*The Verde Valley Master Transportation Plan* is a joint effort by Verde Valley Transportation Planning Organization (VVTPO) and the Arizona Department of Transportation (ADOT) to identify and address the most critical current and future regional transportation needs within the Verde Valley.





# PURPOSE OF THIS MEETING

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- Present the **DRAFT** *Transportation Improvement Plan* for the Verde Valley region
- **We need your valuable input:**
  - Did we address the needs of the region?
  - Do you have any other suggestions for improvements?



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# WHY IS THIS PLAN NEEDED?

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- Establish a regionally cohesive transportation framework
- Enhance mobility and improve safety
- Support planned land use and future growth
- Address safety and operational needs
- Promote economic growth and community livability



# STUDY EXPECTATIONS

## What this study WILL do

- ✓ Identify current and future transportation deficiencies – based on data analysis and input from stakeholders, TAC members, and the public
- ✓ Provide transportation recommendations
- ✓ Identify potential funding sources
- ✓ Provide the VVTPO with a phased transportation implementation plan

## What this study WON'T do

- ✗ Provide instantaneous solutions to current transportation issues
- ✗ Recommend exact alignments and design drawings for any proposed new roads or new alignments
- ✗ Provide any funding to implement the recommendations
- ✗ Conduct detailed environmental analysis

# STUDY PROGRESS AND PROCESS

Step  
01

STUDY GOALS AND OBJECTIVES  
DATA COLLECTION



DETERMINE CURRENT AND FUTURE CONDITIONS

Step  
02

Step  
03

IDENTIFY NEEDS AND DEFICIENCIES



DEVELOP DRAFT PLAN FOR  
IMPROVEMENTS

We are  
here



Step  
04

Step  
05

FINALIZE IMPROVEMENTS AND  
DEVELOP AN IMPLEMENTATION PLAN

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# POPULATION AND HOUSING UNIT PROJECTIONS

|   | 2015 Estimates |               | 2025 Estimates |               | 2040 Estimates |               |
|---|----------------|---------------|----------------|---------------|----------------|---------------|
|   | Total Pop.     | Housing Units | Total Pop.     | Housing Units | Total Pop.     | Housing Units |
| Town of Camp Verde                              | 11,191         | 4,864         | 12,789         | 5,559         | 14,497         | 6,301         |
| Town of Clarkdale                               | 4,251          | 2,136         | 5,023          | 2,524         | 5,848          | 2,939         |
| City of Cottonwood                              | 11,649         | 6,066         | 13,574         | 7,068         | 15,633         | 8,141         |
| Town of Jerome                                  | 442            | 290           | 442            | 290           | 442            | 290           |
| City of Sedona                                  | 10,312         | 6,545         | 11,333         | 7,193         | 12,901         | 8,189         |
| Unincorporated Yavapai County (Study Area Only) | 4,955          | 3,022         | 6,052          | 3,690         | 7,225          | 4,406         |
| <i>Cornville CDP</i>                            | 3,494          | 1,806         | 4,866          | 2,515         | 5,945          | 3,072         |
| <i>Lake Montezuma CDP</i>                       | 5,106          | 2,532         | 8,047          | 3,991         | 10,152         | 5,035         |
| <i>Verde Village CDP</i>                        | 12,112         | 5,207         | 14,114         | 6,068         | 16,255         | 6,988         |
| <i>Oak Creek (Big Park) CDP</i>                 | 6,401          | 4,244         | 7,131          | 4,728         | 8,226          | 5,455         |
| <i>Yavapai Apache Nation*</i>                   | 742            | 220           | 871            | 258           | 1,001          | 297           |
| Study Area                                      | 69,913         | 36,712        | 83,371         | 43,626        | 97,124         | 50,816        |

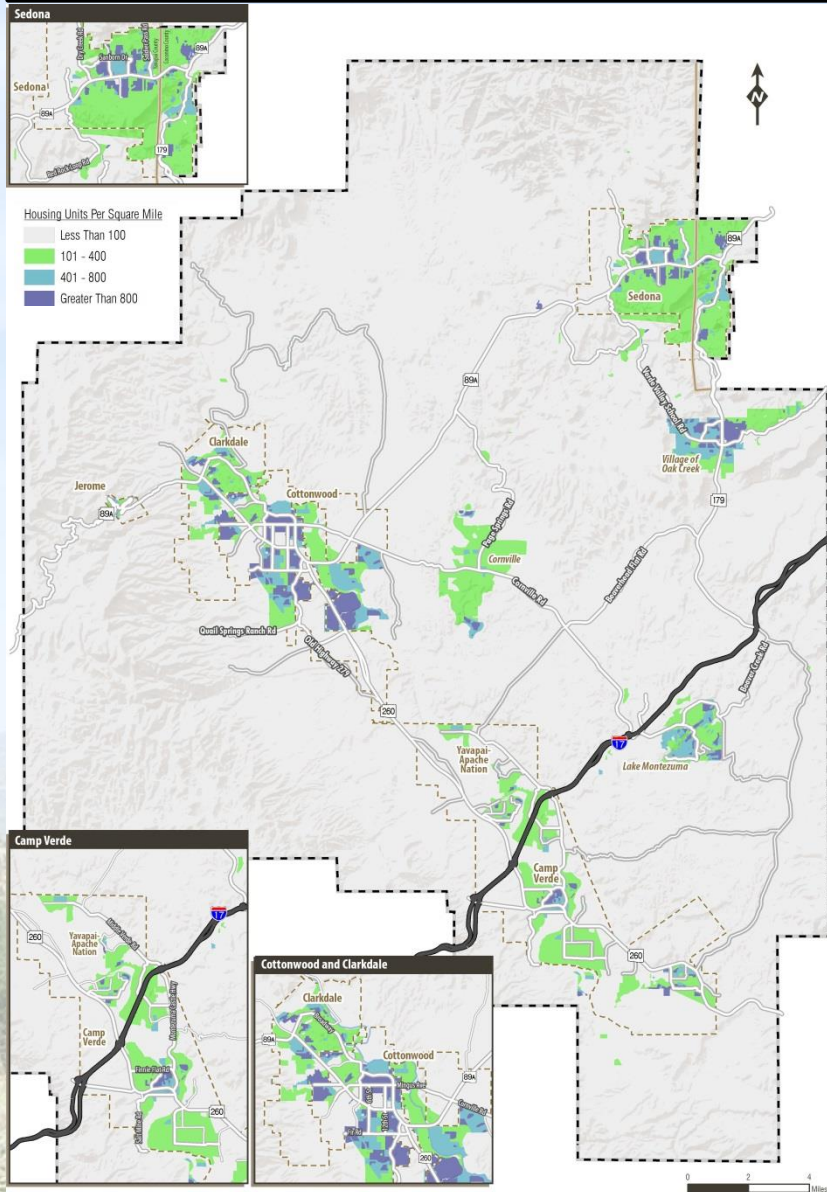
*\*Included in Camp Verde populations*

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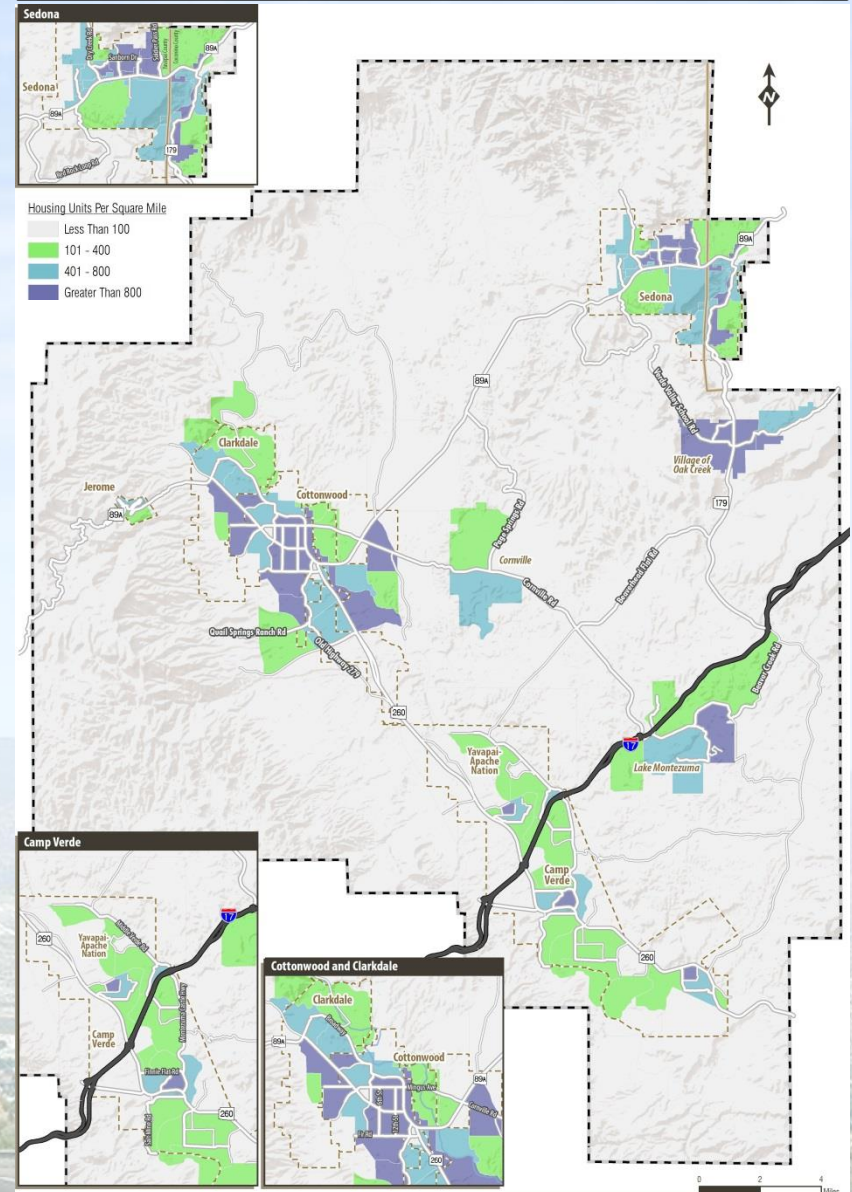


# STUDY AREA – HOUSING UNIT DENSITY

## Existing Census 2010 Housing Unit Density (Census Block)



## Projected 2040 Housing Unit Density

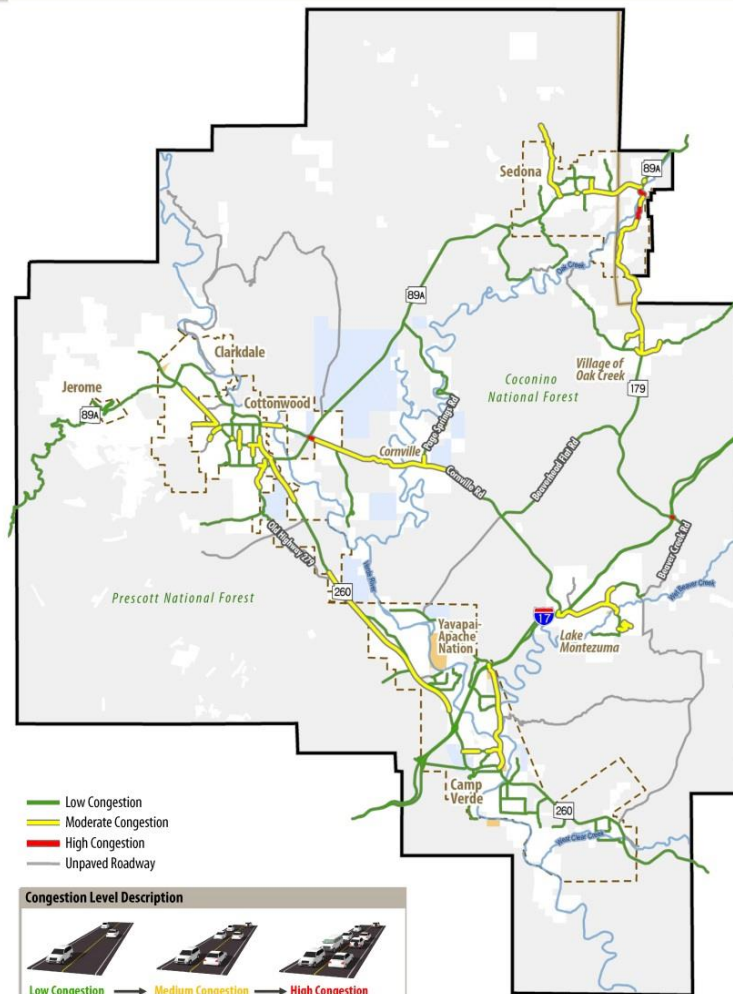


# EXISTING AND PROJECTED TRAFFIC CONGESTION



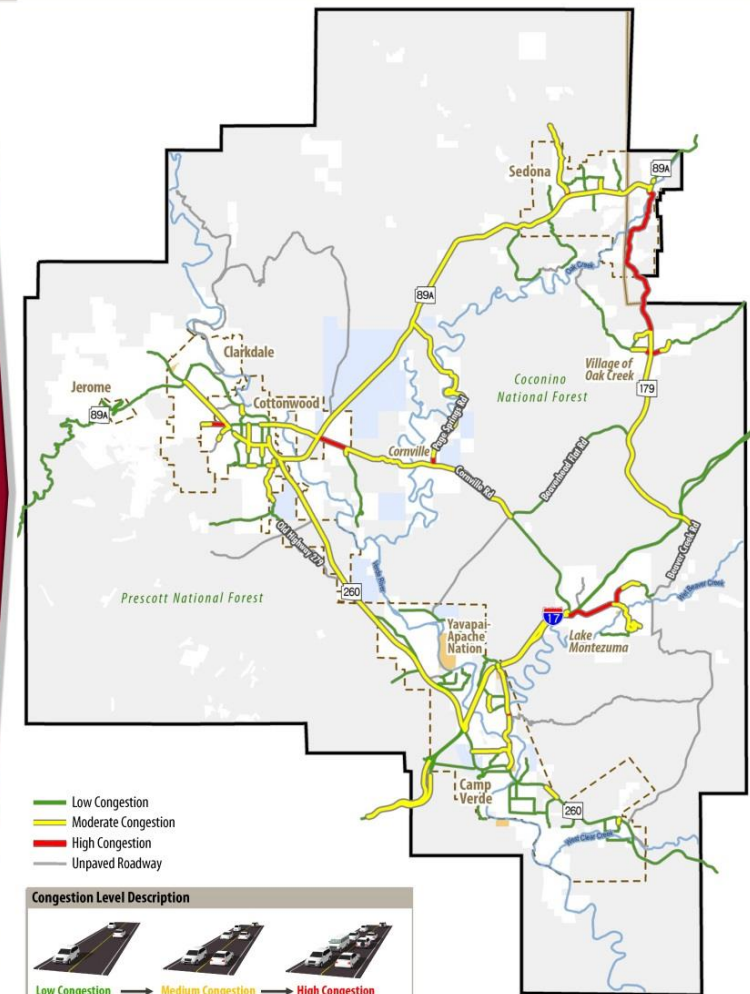
## EXISTING AND PROJECTED TRAFFIC CONGESTION

Current 2015 Congestion Levels



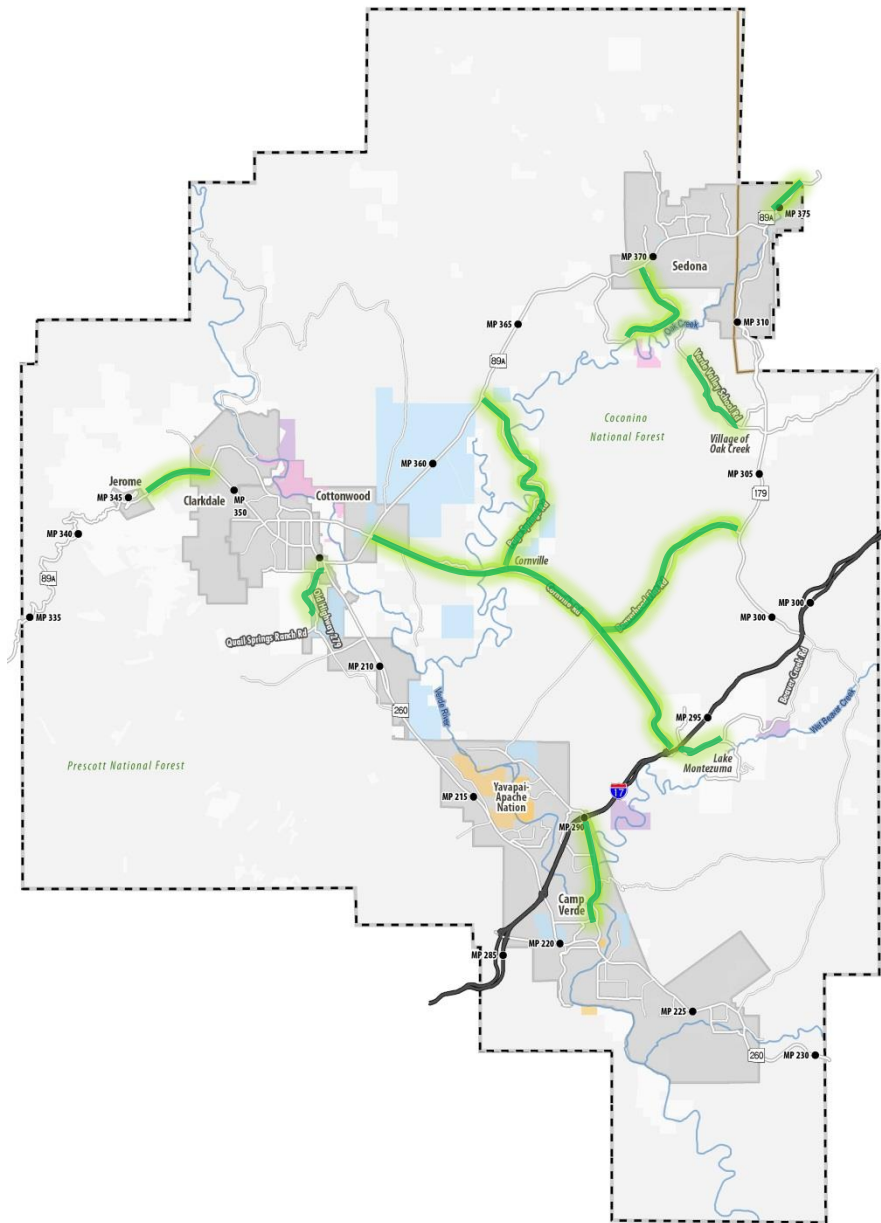
Projected Roadway Congestion if No Roadway Improvements Are Made

Projected 2040 Congestion Levels





## Recommended Improvements



# RECOMMENDED SHORT-TERM IMPROVEMENTS

## Widen Shoulders

- SR 89A: North of Uptown Sedona
- SR 89A: Jerome to Clarkdale Parkway
- Red Rock Loop Road
- Verde Valley School Road
- Cornville Road
- Beaver Creek Road
- Beaverhead Flat Road
- Page Springs Road
- Montezuma Castle Highway



# TRAFFIC, SAFETY AND ACCESS MANAGEMENT STUDIES

## Traffic Studies:

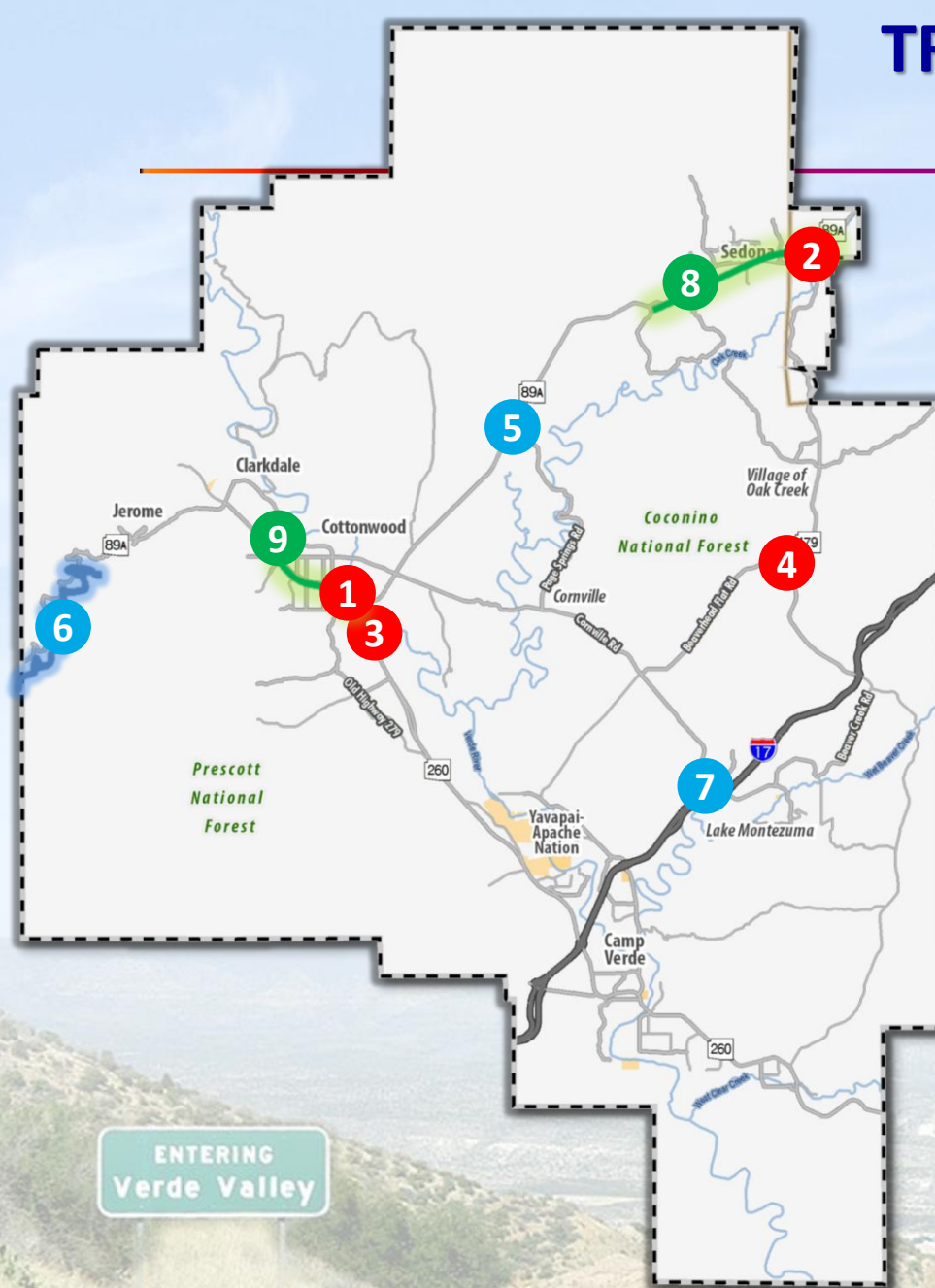
- 1 SR 89A / SR 260 intersection
- 2 SR 89A / SR 179 intersection
- 3 SR 260 / Fir Street
- 4 SR 179 / Beaverhead Flat Rd

## Road Safety Assessment (RSA):

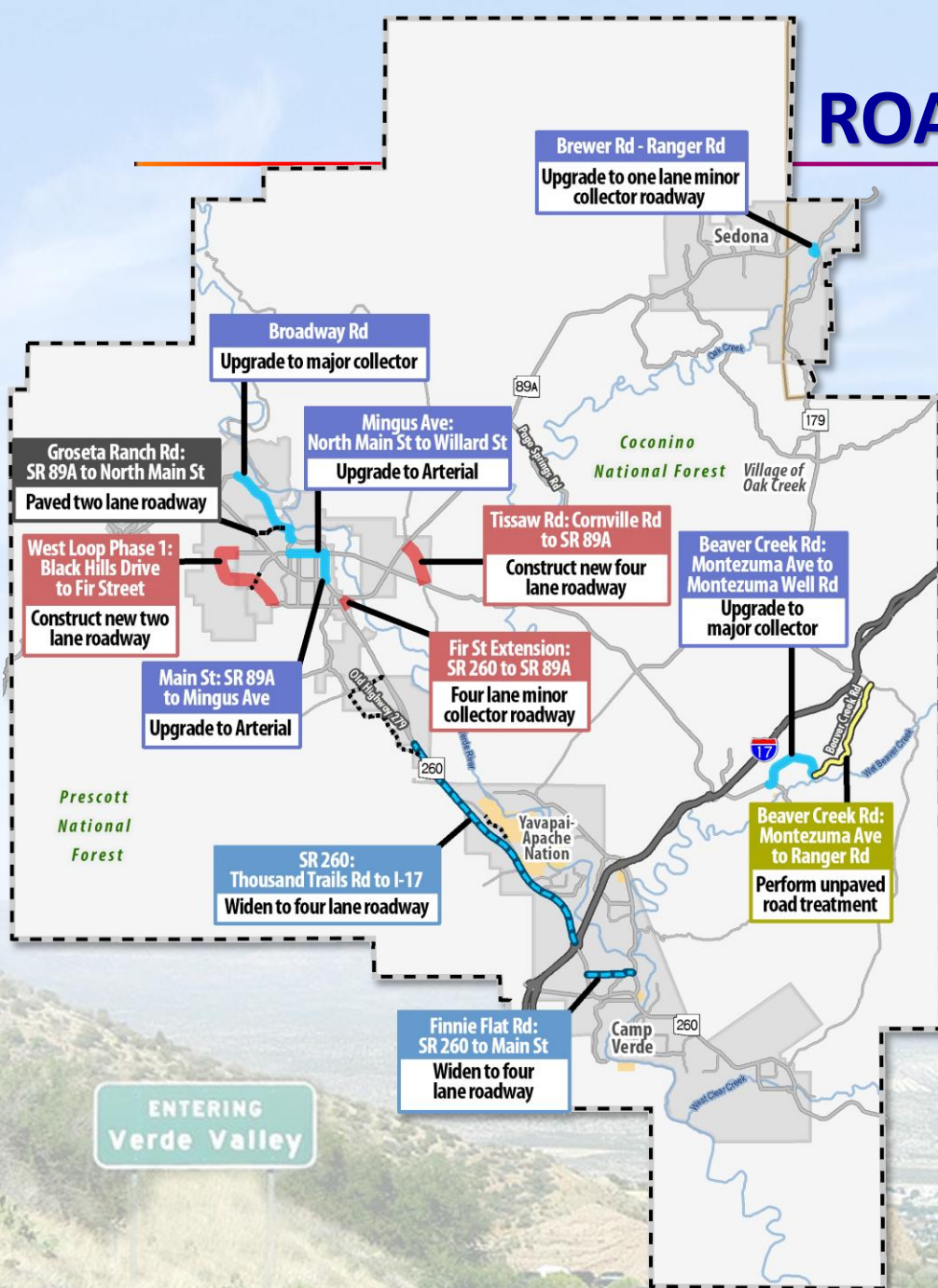
- 5 SR 89A / Page Springs Rd
- 6 SR 89A: MP 334 to MP 346
- 7 I-17 / Cornville Rd TI

## Access Management:

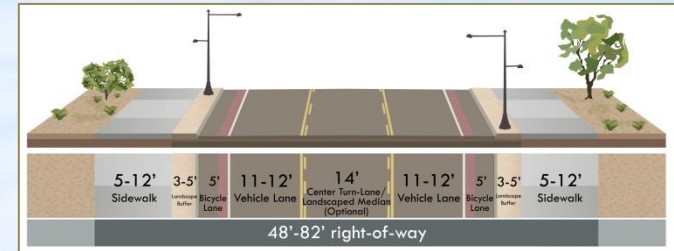
- 8 SR 89A: Red Rock Loop Road to Uptown Sedona
- 9 SR 89A: Mingus Ave to SR 260



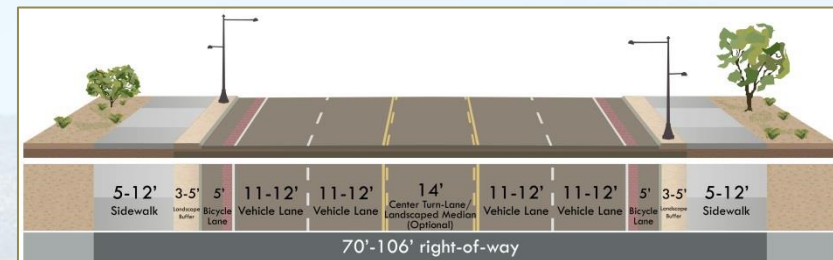
# ROADWAY IMPROVEMENTS SHORT-TERM



## Cross Section #1 – 2 Lanes



## Cross Section #2 – 4 Lanes



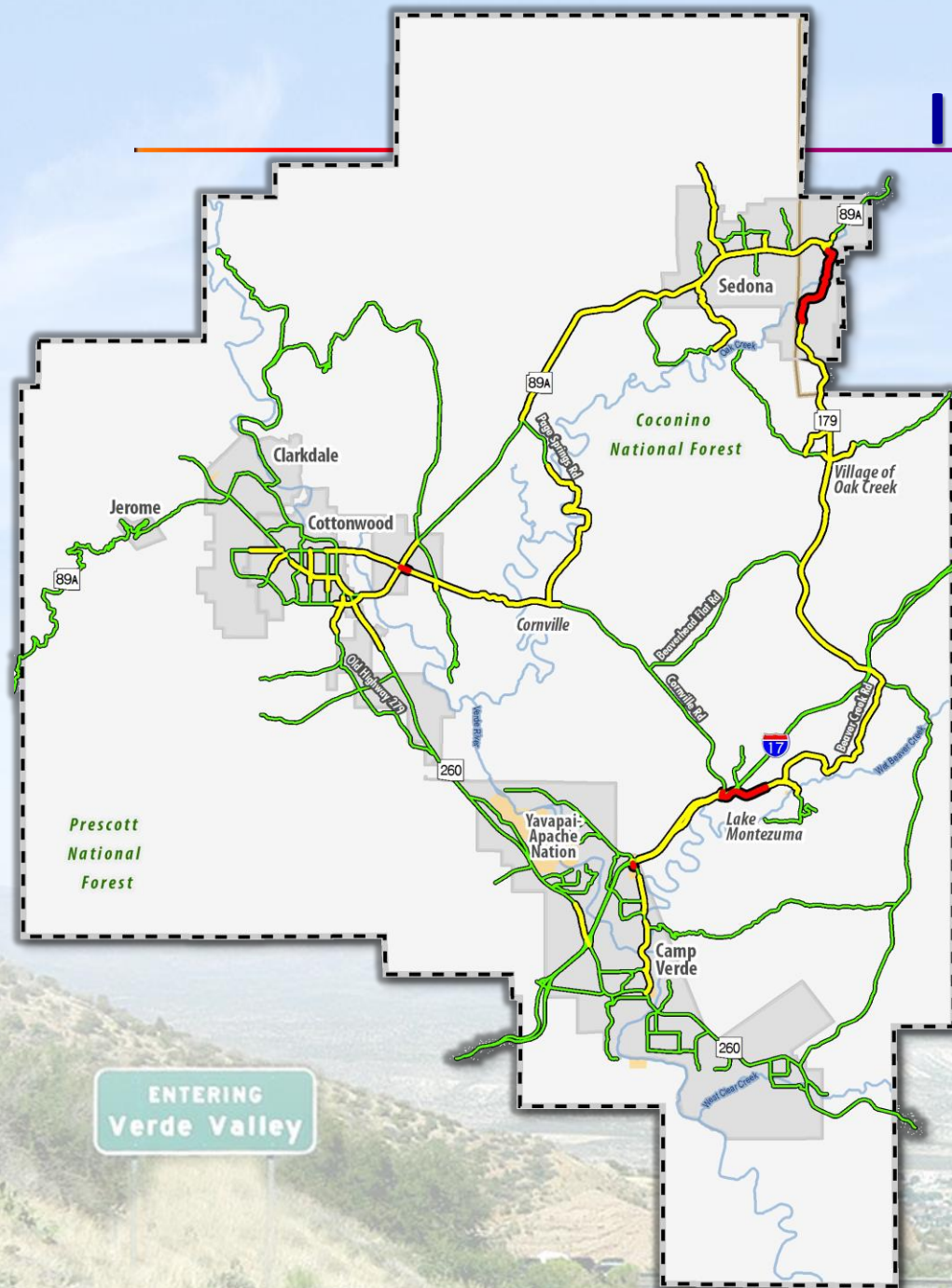


# ROADWAY IMPROVEMENTS SHORT- TERM: CONGESTION

 At or Above Capacity

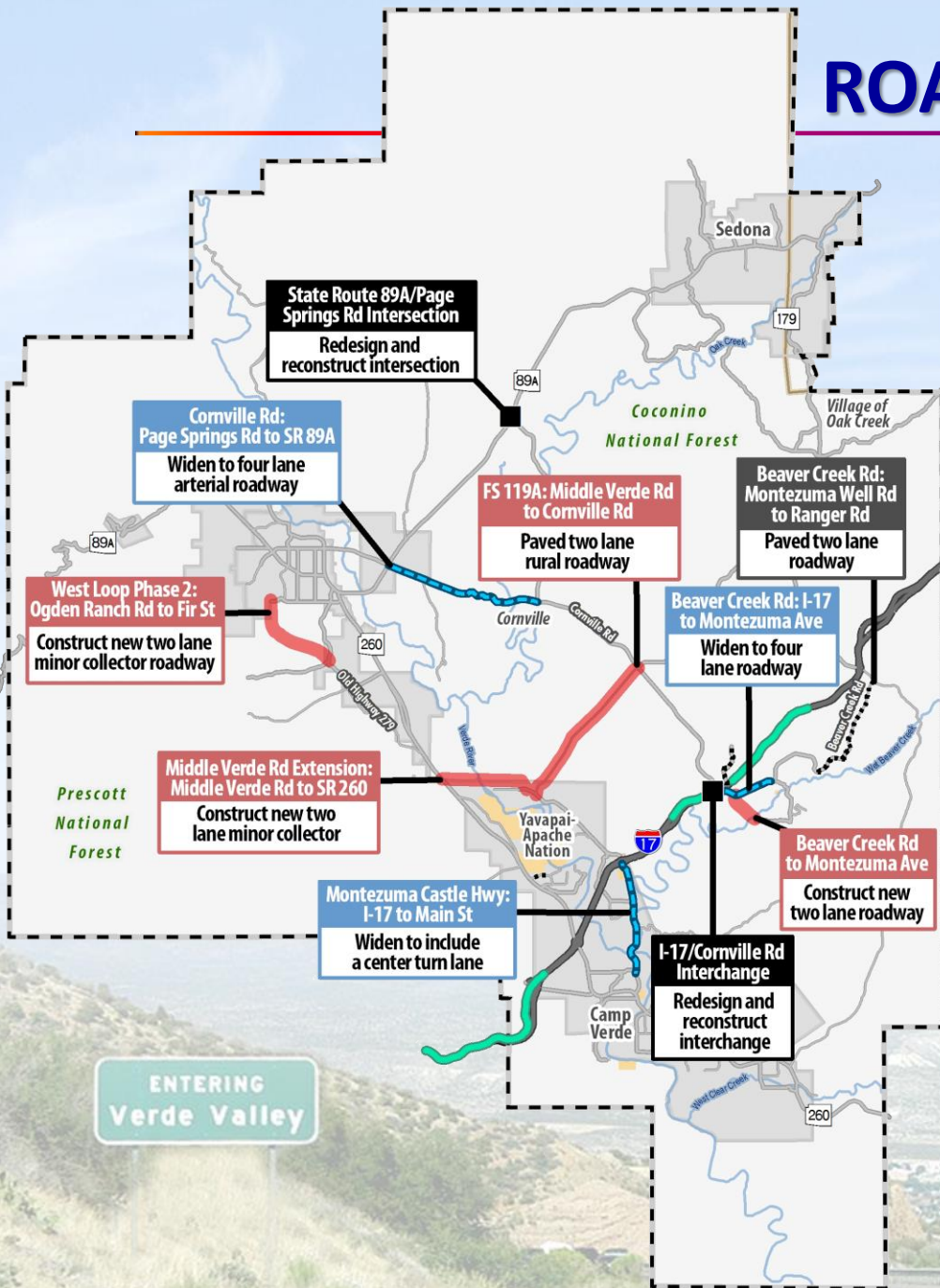
 Near Capacity

 Below Capacity





# ROADWAY IMPROVEMENTS LONG-TERM



# ROADWAY IMPROVEMENTS

## LONG-TERM: CONGESTION

 At or Above Capacity

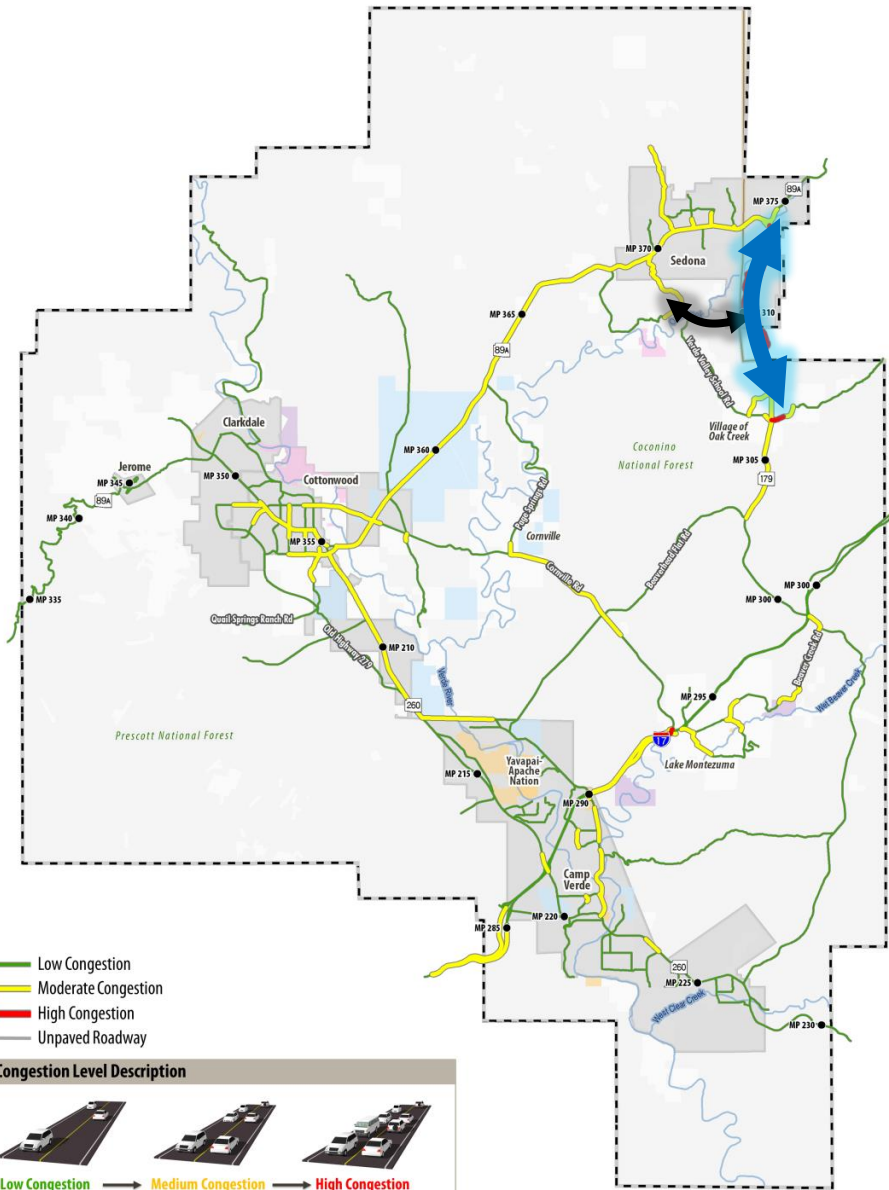
 Near Capacity

 Below Capacity





## Projected 2040 Congestion Levels



# ADDITIONAL ALTERNATIVES EVALUATED

## ↔ Alternate Route to SR 179

- Alternate route diverted only 5,000 vehicles (approx.) away from SR 179.
- Congestion on SR 179 persisted.

## ↔ Widen SR 179 to Four Lanes

- Four lane widening option relieved congestion on SR 179; however, addition capacity improvements may be needed on SR 89A (Uptown area).
- Public was opposed to widening SR 179 to four lanes when it was presented during the previous SR 179 corridor improvements project.



# CONGESTION MANAGEMENT

## Uptown Sedona - Motorists Looking For Parking Cause Congestion

- Install signs to direct motorists to parking
- Provide information about parking availability and pricing



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# CONGESTION MANAGEMENT

## Parking Facilities

- **Sedona:** Evaluate the need for a ***parking facility*** South of Y-intersection that includes ***shuttle service*** and/or ***bicycle Rental*** facility
- **Cottonwood:** Develop a Parking Management Strategy and Action Plan to develop a plan for the efficient use of existing parking inventory and to determine if additional parking facilities are needed.
  - Restrict on-street parking during major events
  - Install signage directing motorists to parking

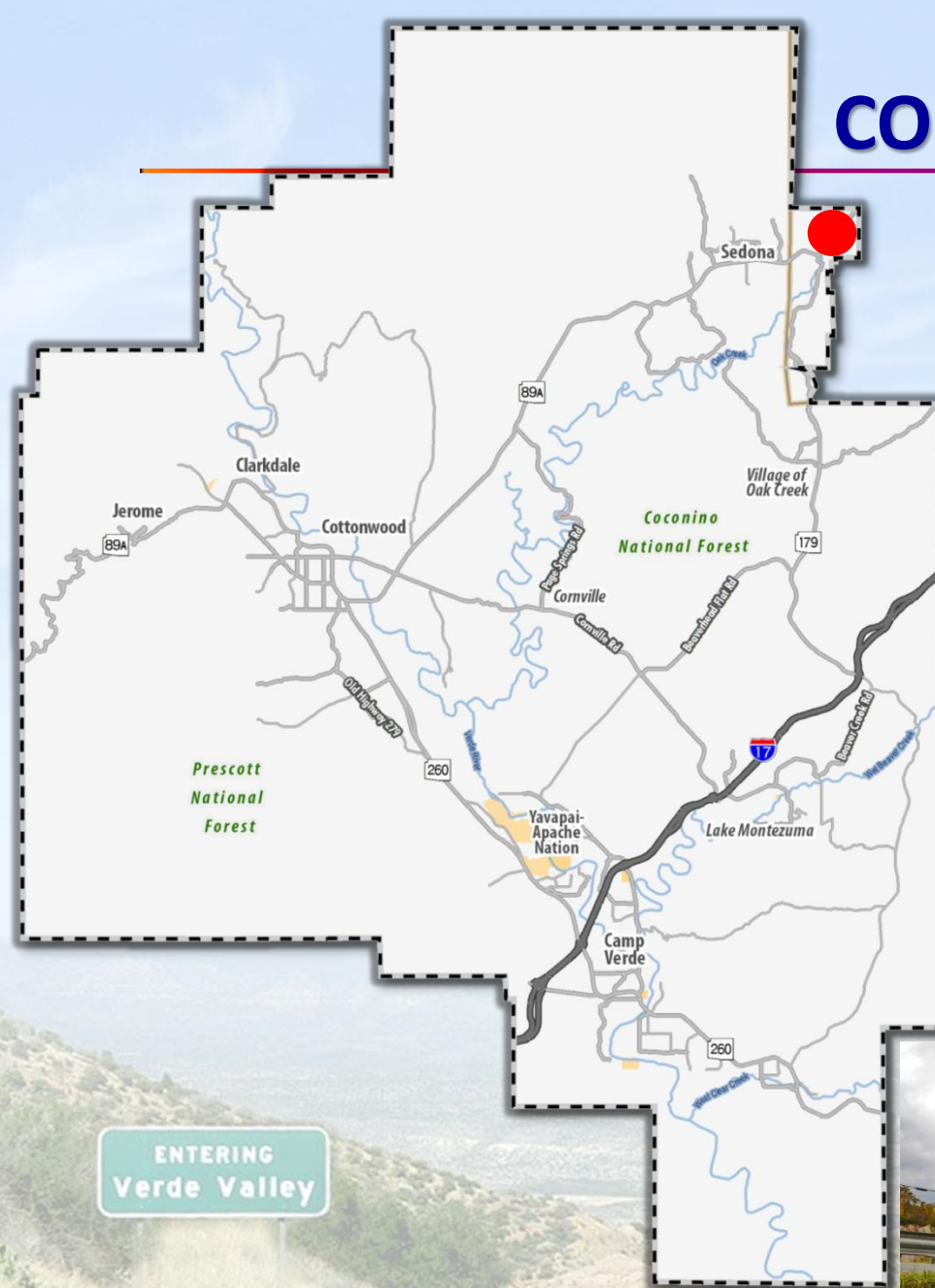




# CONGESTION MANAGEMENT

## Uptown Sedona - Pedestrian Jaywalking adds to Congestion

- Install pedestrian overpass
  - Connect to parking structures
  - Elevator
  - Context sensitive design
- Install context sensitive pedestrian barrier along roadway



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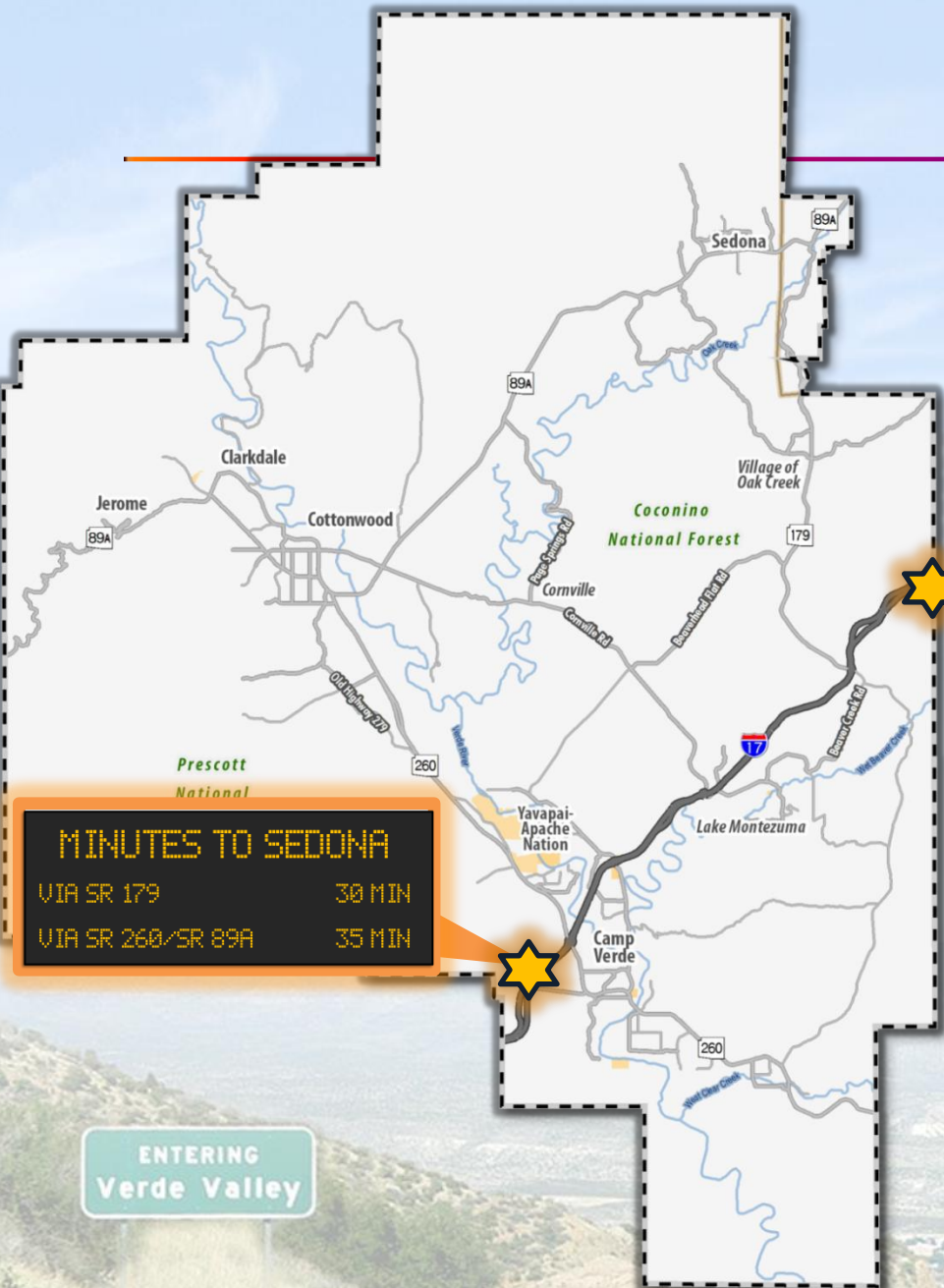
# CONGESTION MANAGEMENT

## Congestion on

- SR 179 and Uptown SR 89A
- SR 260 to Cottonwood

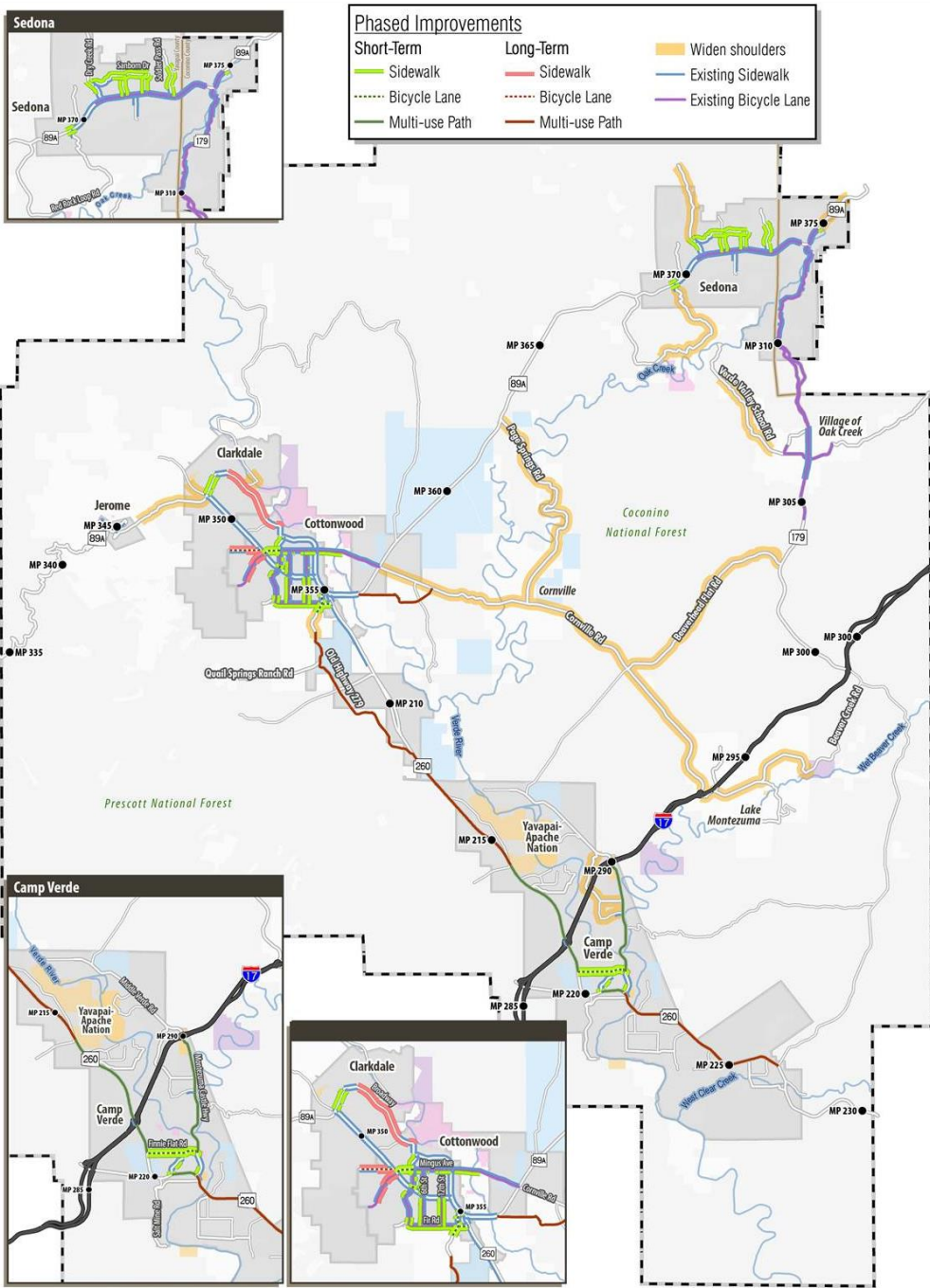
## Install Variable Message Signs (VMS) boards to alert motorists

- Travel time estimates
- Traffic conditions
- Emergency situation



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ACCIDENT ON  
SR 260  
USE CORNVILLE ROAD



## RECOMMENDED MULTIMODAL IMPROVEMENTS

### Bicyclist Safety Improvement Strategies

#### Bike Lane Colored Pavement



##### Benefits

- Increases driver awareness
- Defined space for pedalcyclists
- Encourages motorists to yield

##### Considerations

- Surface should be skid resistant and retro-reflective
- Requires regular maintenance

#### Textured Pavement



##### Benefits

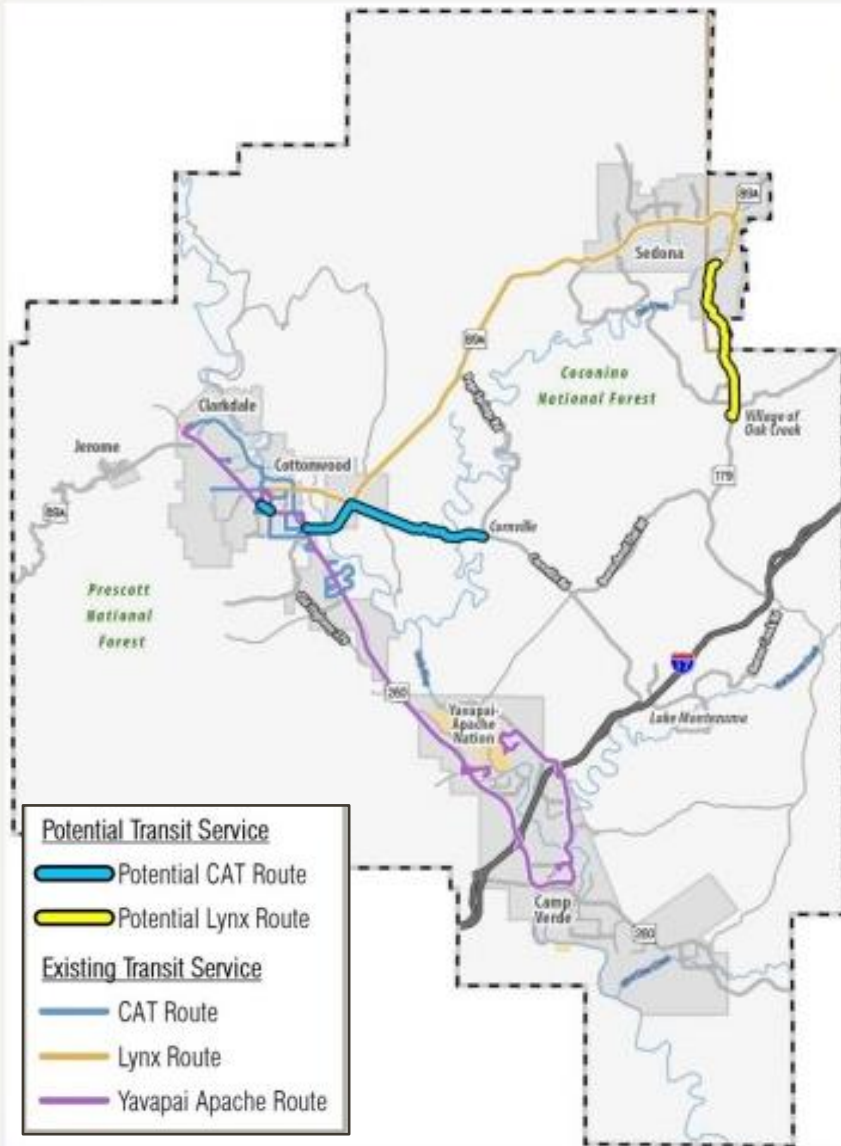
- Transmits sound and vibration to drivers
- Defined space for pedalcyclists
- Encourages motorists to yield

##### Considerations

- Requires additional on-going maintenance
- Bike lanes may need to be widened



## Transit



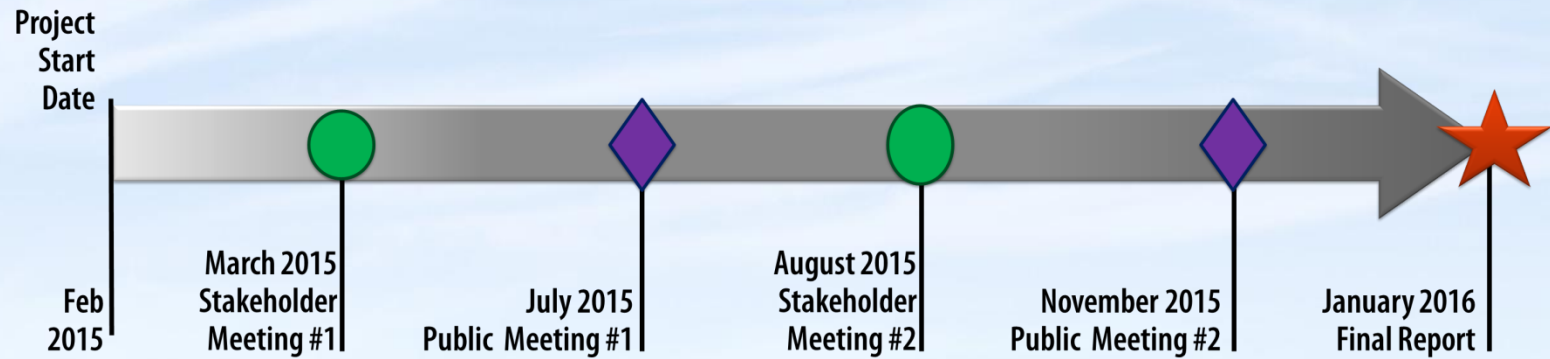
# RECOMMENDED MULTIMODAL IMPROVEMENTS

### Conduct a Transit Feasibility study for:

- Shuttle service between Village of Oak Creek and Sedona
- Service between Camp Verde and Lake Montezuma
- Service connecting Camp Verde and Verde Lakes
- Service connecting Cottonwood, Cornville, and the Village of Oak Creek
- Service between Lake Montezuma and the Village of Oak Creek
- Sedona circulator route

# PROJECT SCHEDULE

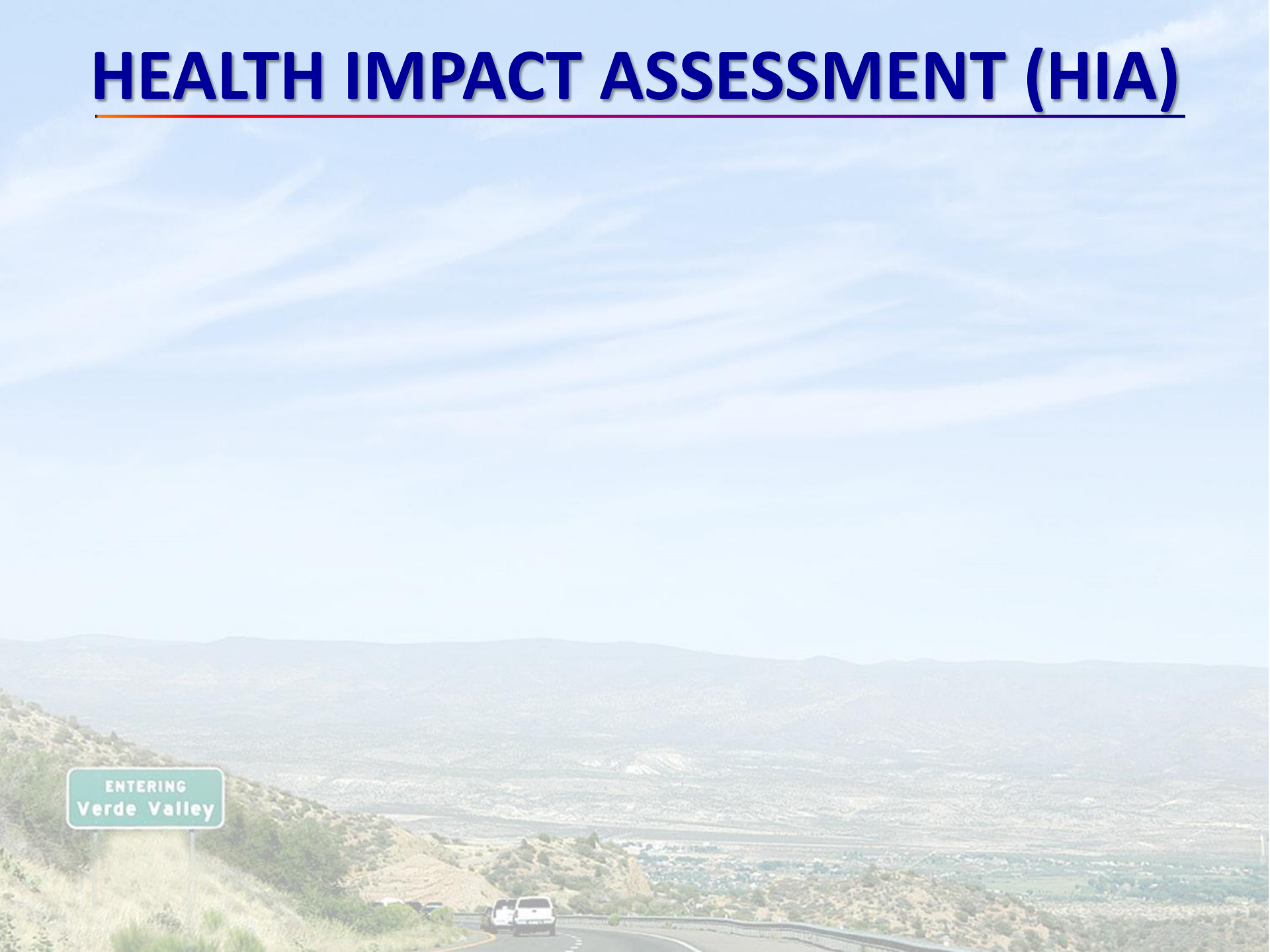
## KEY STUDY MILESTONES



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# **HEALTH IMPACT ASSESSMENT (HIA)**



# WE NEED YOUR INPUT

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- Sign-in sheet
- Provide Feedback
  - Display Boards - Mark issues, ideas, and concerns on maps
  - Comment Form
  - Comments will be received until **December 4th, 2015**

**Learn more about this study at:**  
*<http://azdot.gov/VerdeValleyMTP>*

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